TA-717/717M/818/818M

SERVICE MANUAL

TA-717/818 are the amplifier section in FH-717R/818R.

TA-717M/818M are the amplifier section in MHC2200/2200CD/ 3300/3300CD.



Photo: TA-818M

US Model
AEP Model
UK Model

Canadian Model

E Model
TA-717/818

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (for US, Canadian model)
POWER OUTPUT AND TOTAL HARMONIC

DISTORTION:
With 6 ohm loads both channels driven, from 50 – 20,000 Hz; rated 22 watts: 717M, 30 watts: 818M per channel minimum RMS power, with no more than 1% total harmonic distortion from

250 milliwatts to rated output.

Continuous RMS power output (AEP, UK, West Germany,

Italian model)

TA-717M

30 + 30 watts (6 ohms, at 1 kHz, 5% THD)

TA-818M

45 + 45 watts (6 ohms, at 1 kHz, 5% THD)

Peak music power output (E, Saudi Arabia model) 380 watts (5% THD, 6 ohms)

	Sensitivity	Impedance
AUX (US, Canadían model) (phono jacks)		
CD (AEP, UK, E West Germany	450 mV	50 kilohms
Italian, Saudi Arabia model) (phono jacks)		
MIC (minijack)	1 mV	600 ohms
PHONO (phono jacks)	2.5 mV	47 kilohms

Outputs

HEADPHONES (stereo minijack)	Accepts headphones of 8 ohms or more.
SPEAKER	Accepts speakers of 6 to 16 ohms.

Power requirements

US, Canadian model: 120 V AC, 60 Hz AEP, UK, West Germany, Italian model: 220 V . 50/60 Hz

UK model: 240 V, 50 Hz

E model: 120, 220 or 240 V AC adjustable, 50/60 Hz

Power consumption

	TA-717/717M	TA-818/818M
US model	75 W	85 W
Canadian model	130 W	
AEP, UK, West Germany Italian model	85 W	105 W
UK model	165 W	225 W
E, Saudi Arabia model	100 W	105 W

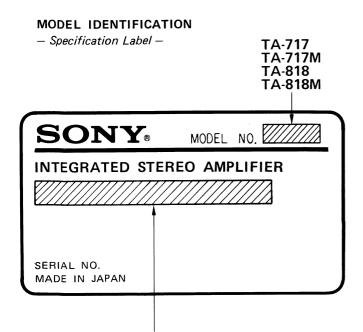
Dimensions/Weight

	Dimensions* (w/h/d)	Weight
TA-717/717M	Approx. 225 x 120 x 270 mm	Approx. 3.8 kg (8 lb 6 oz) net
TA-818/818M	$(87/_8 \times 4^3/_4 \times 10^3/_4 \text{ inches})$	Approx. 4.3 kg (9 lb 8 oz) net

^{*} incl. projecting parts and controls



SECTION 1 SERVICING NOTES



US, Canadian Model: AC: 120 V $^{\sim}$ 60 Hz

AEP, West Germany, Italian Model:

AC: 220 V $\sim 50/60 \text{ Hz}$

UK Model: AC: 240 V ~ 50/60 Hz

E, Saudi Arabia Model: AC: 120/220/240 V ~ 50/60 Hz

On operating voltage

Before operating the unit, check that the operating voltage of your unit is identical with the voltage of your local power supply.

Where purchased	Operating voltage
US, Canadian Model	120 V AC
UK Model	240 V AC
AEP, West Germany Italian Model	220 V AC
E, Saudi Arabia Model	120 V, 220 V or 240 V AC adjustable by AC voltage selector
	120V 240V VOLTAGE SELECTOR

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

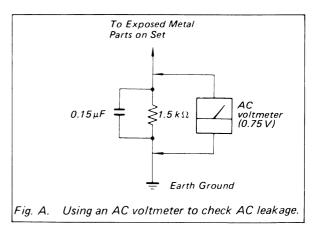
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

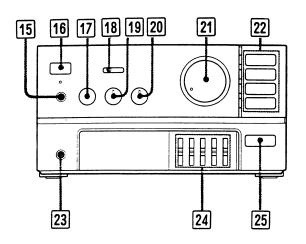


ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 2 GENERAL

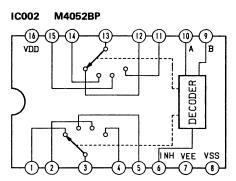
FUNCTION OF CONTROLS

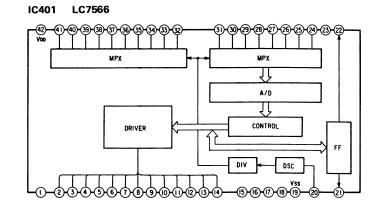


- 15 MIC (microphone) jack (minijack)
- 16 POWER switch
- 17 MIC LEVEL (microphone level) control
- 18 DBFB (Dynamic Bass Feedback) button
- 19 DBFB LEVEL control
- 20 BALANCE control
- 21 VOLUME control
- 22 Function selectors
- 23 HEADPHONES jack (stereo minijack)
- 24 GRAPHIC EQUALIZER controls
- [25] EQUALIZATION switch

SECTION 3 DIAGRAMS

3-1. IC BLOCK DIAGRAMS

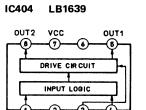




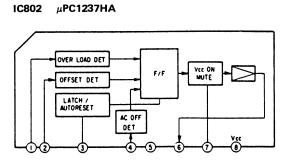
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Note The fied ted

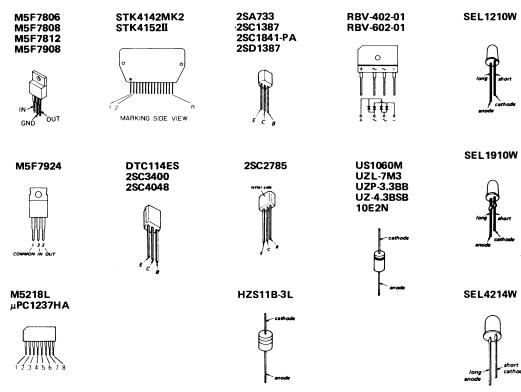
are o Rep



IN1 GND V CONT IN2



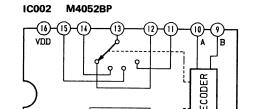
3-2. SEMICONDUCTOR LEAD LAYOUTS



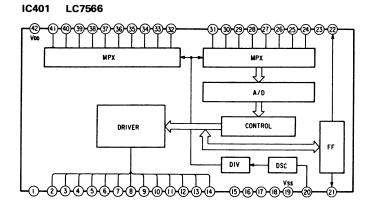
SECTION 3 DIAGRAMS

3-1. IC BLOCK DIAGRAMS

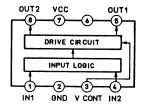
+



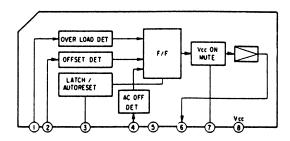
INH VEE VSS



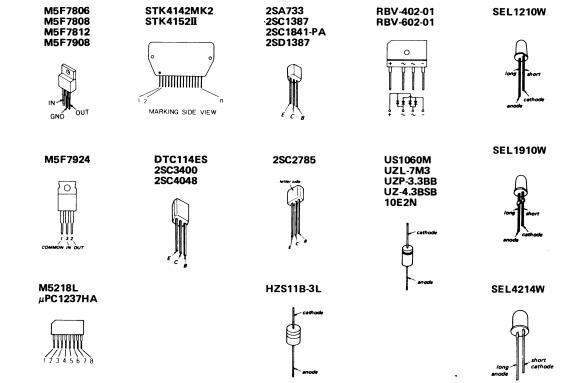








3-2. SEMICONDUCTOR LEAD LAYOUTS



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- monflammable resistor.
- fusible resistor.
- === : B+ Line
- --- : B- Line
- Voltages are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ).
 Voltage variations may be noted due to normal production tolerances.
- Signal path.CD

Note:
The components identi-
fied by mark / or dot-
ted line with mark
are critical for safety.
Replace only with part
number specified

Note:

Les composants identifiés par une marque A sont critiques pour la sécurité.

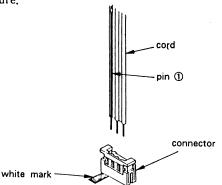
Ne les remplacer que par une pièce portant le numéro spécifié.

Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101 D201 D202 D203 D204 D401	G-2 I-5 I-5 I-4 I-4 E-11	IC001 IC002 IC003 IC101 IC201 IC202	H-8 J-7 J-2 H-3 H-6 H-6
D401 D402 D403 D404 D405 D406	E-11 C-15 B-9 B-9 C-9	IC202 IC203 IC301 IC302 IC303 IC351	J-4 D-9 C-9 C-12 E-8
D407 D408 D409 D410 D411	C-9 B-13 B-13 B-13 D-11	IC401 IC402 IC403 IC801 IC802	E-13 C-11 D-14 C-19 B-22
D412 D413 D414 D415 D416	D-13 D-14 D-12 D-11 D-11	IC901 IC902 Q101 Q102	H-20 H-19 I-4 G-3
D417 D418 D419 D420 D421 D422	B-13 B-15 C-11 C-11 E-14 B-2	Q301 Q302 Q303 Q351 Q353 Q401	C-13 C-14 C-5 C-13 C-5 C-10
D423 D801 D821 D822 D851 D901 D902	C-12 B-19 B-18 B-21 B-19 H-18 G-17	Q401 Q402 Q403 Q404 Q406 Q801 Q802 Q901	B-15 C-10 E-15 C-4 B-20 B-21 G-18
D903 D904 D905 D906 D907 D911	H-14 G-19 H-19 G-19 H-19 I-19		

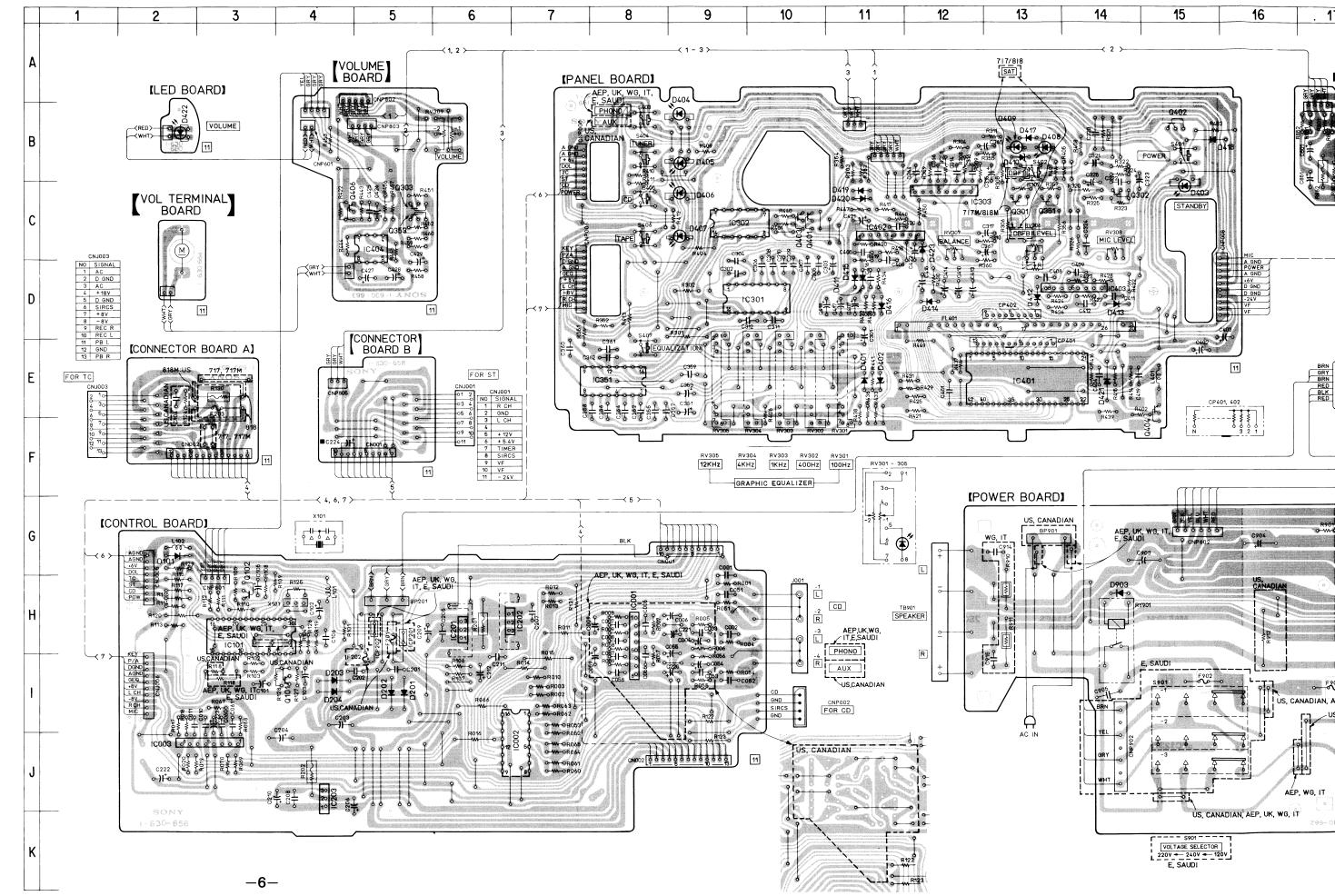
[Note on Inserting the Cord to the Connector on Tuner Board]

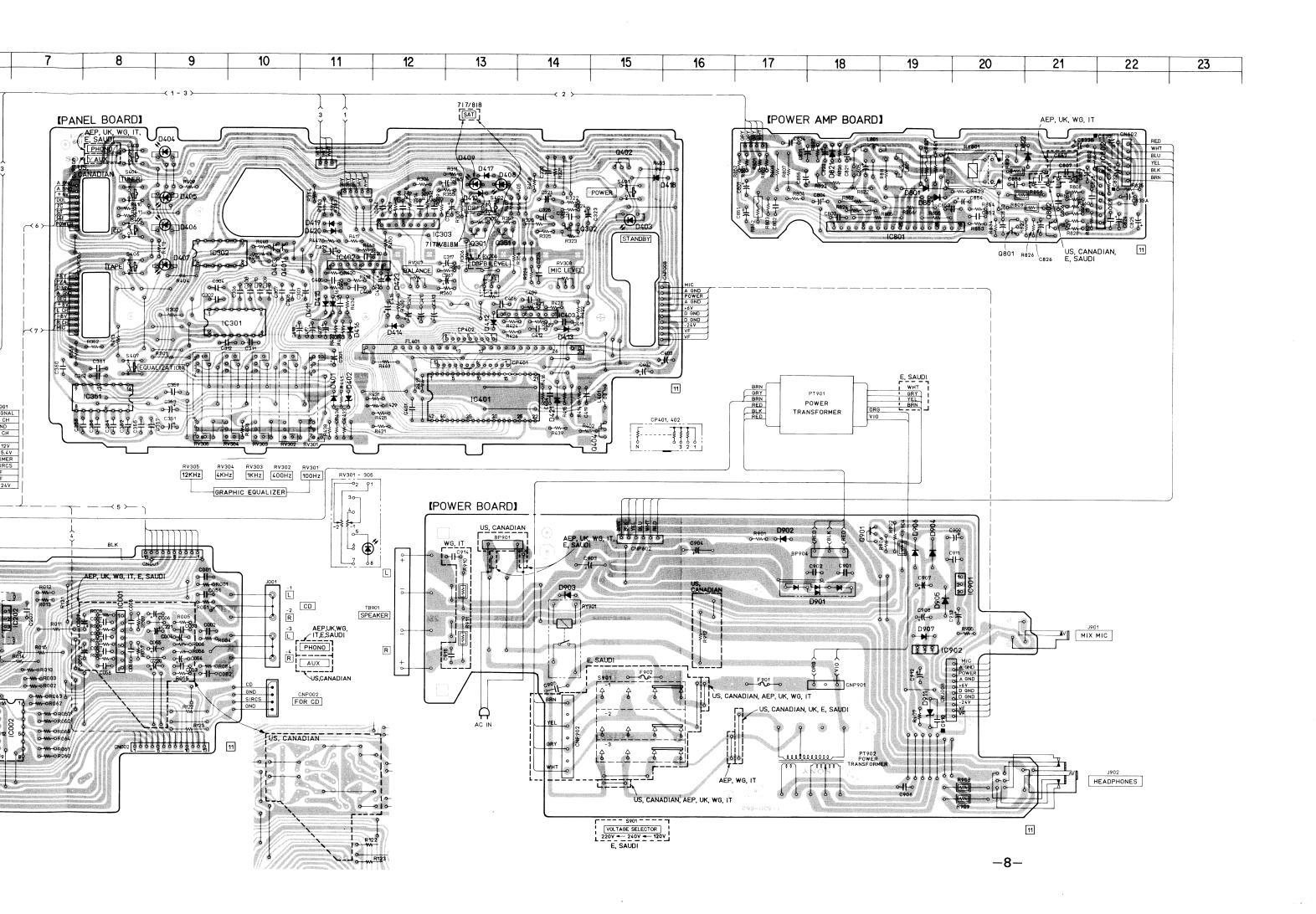
• Insert the cord to the connector fitting Pin ① of the cord in accordance with the white mark on the board at the connector as shown in the figure.

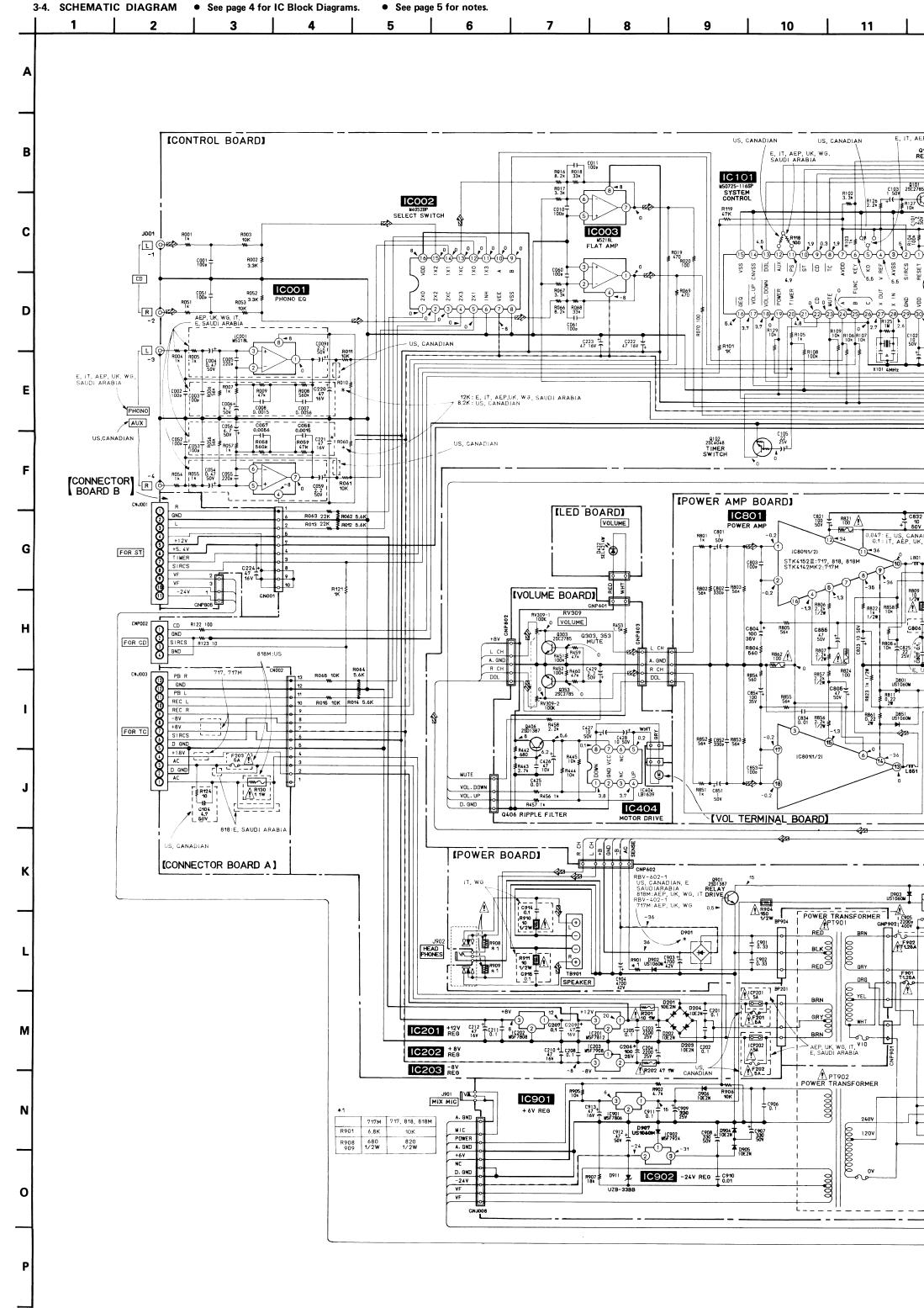


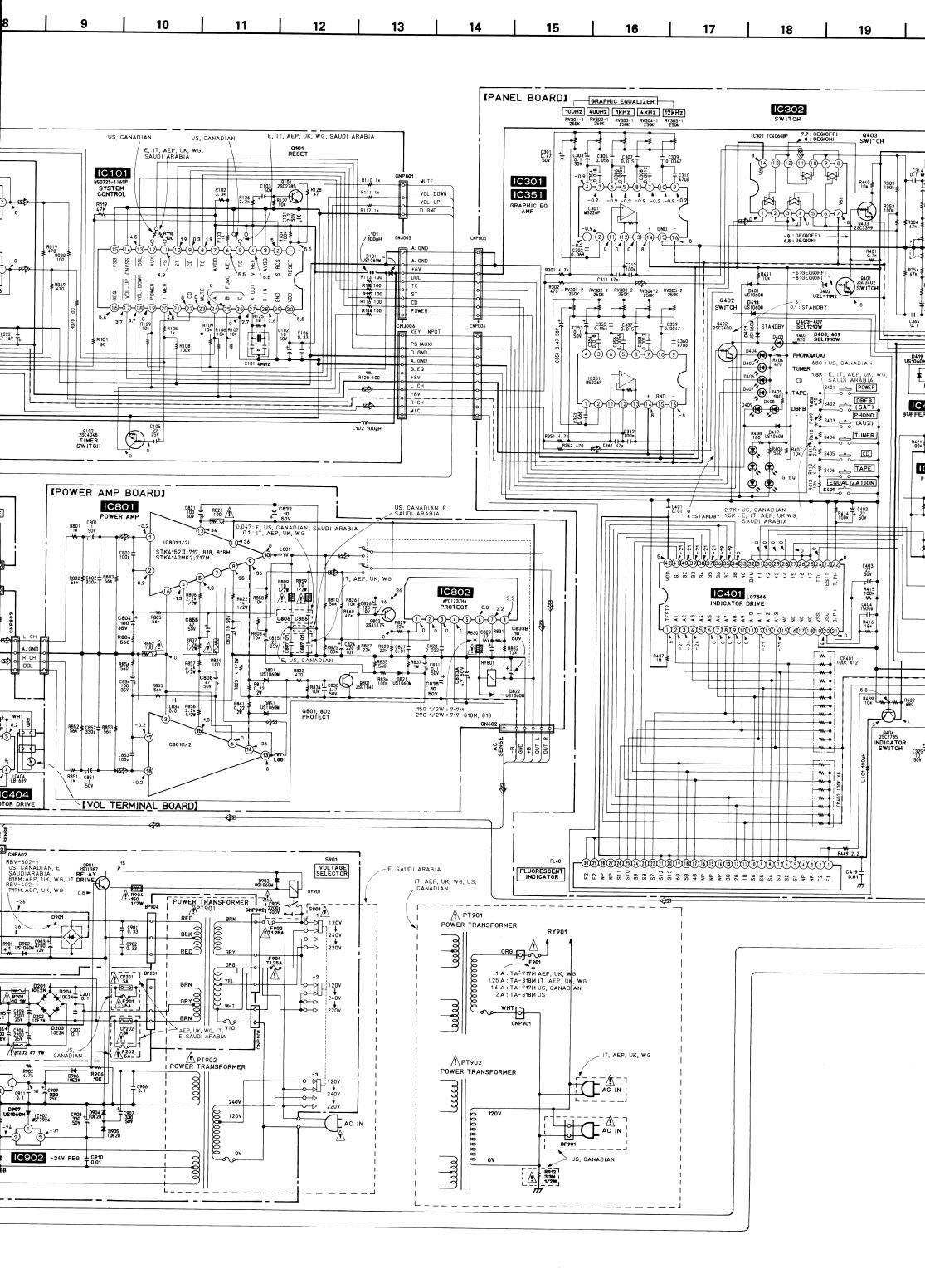
TA-717/717M/818/818M

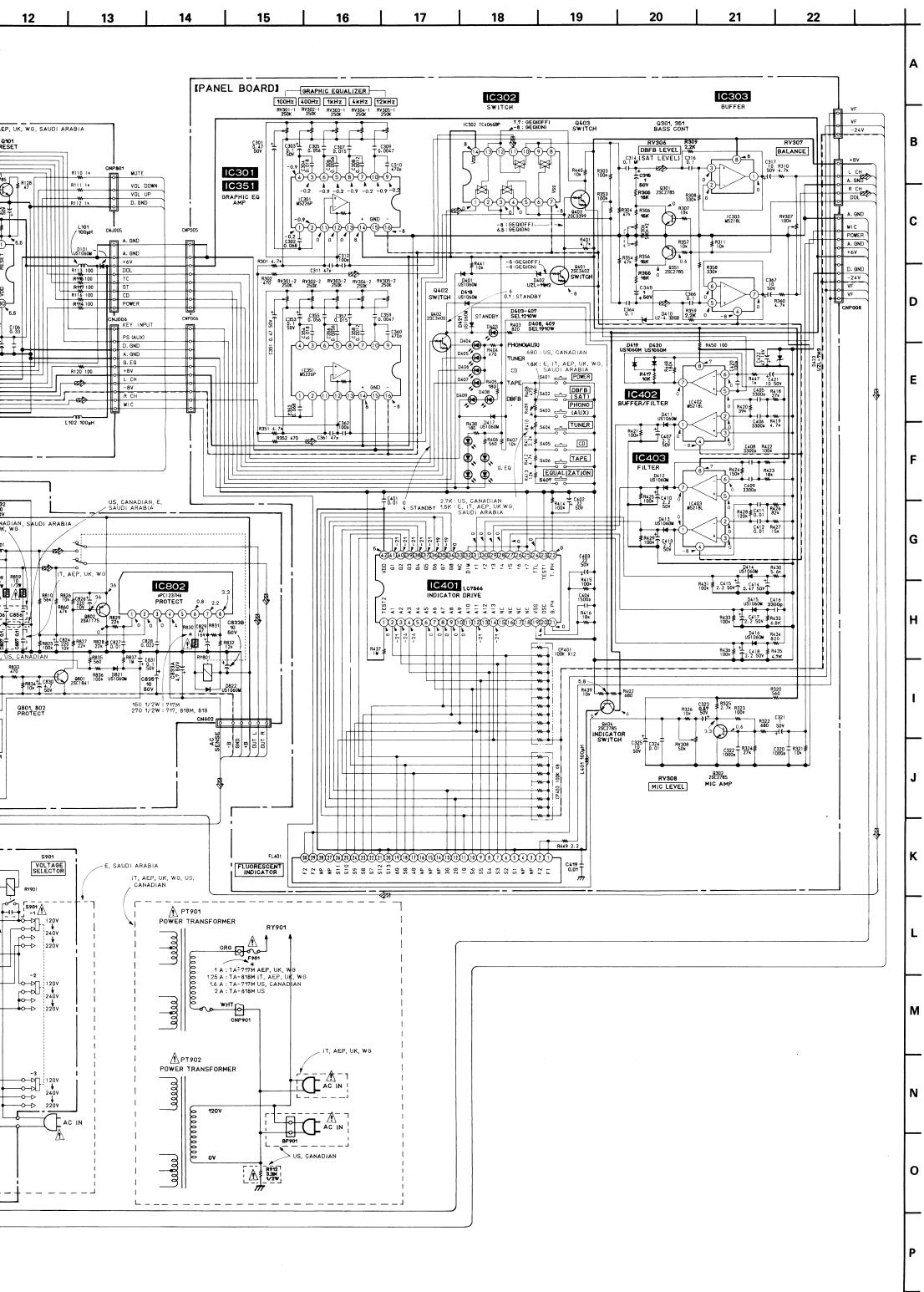
3-3. PRINTED WIRING BOARDS • See page 4 for Semiconductor Lead Layouts.











SECTION 4 EXPLODED VIEW

NOTE:

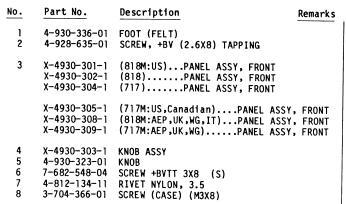
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example: (RED) ...KNOB, BALANCE (WHITE)

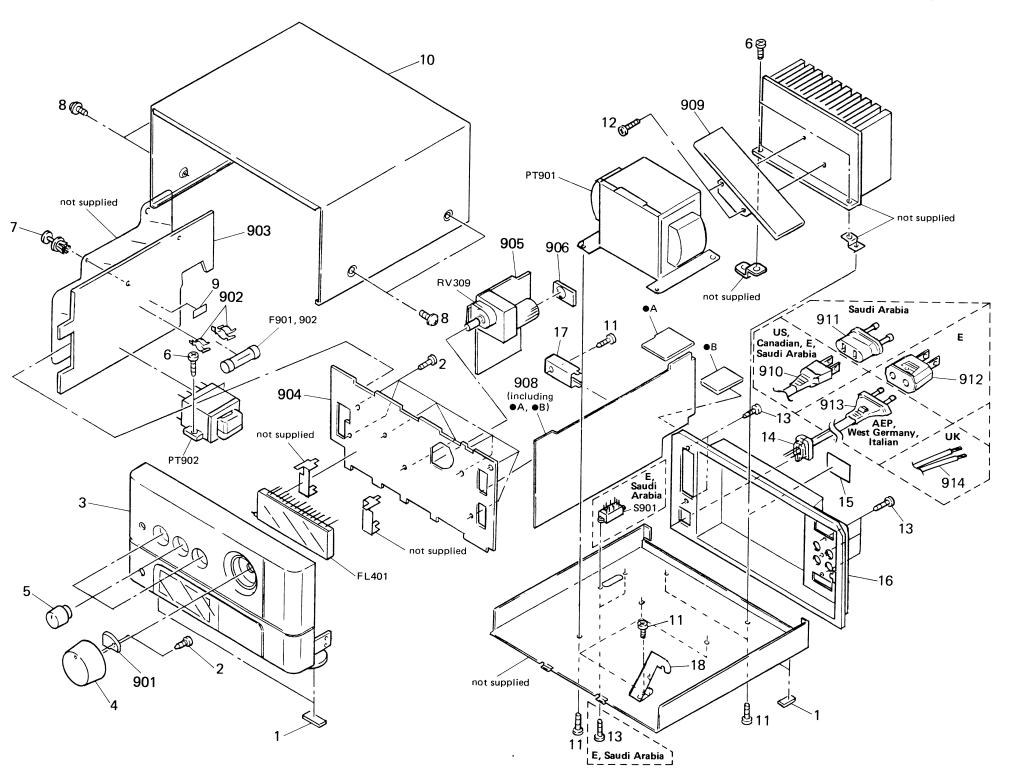
Cabinet's Color Parts' Color

The components identified by mark \bigwedge or dotted line with mark \bigwedge are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifé.





S	No.	Part No.	Description	Remarks
	9	*3-701-946-22	(1.64.1	25V), FUSE
		*3-701-946-23 *3-701-947-11	(818M:US)LABEL (2A 1	25V), FUSE
	10	4-930-355-01 4-930-355-21 4-930-355-31	(818M:US)CA (717M,818M:AEP,UK,WG,IT)CA (E,Saudi Arabia)CA	SE
	11 12 13	7-682-547-04 7-685-650-79 7-685-646-79	SCREW +BVTP 3X16 TYPE2 IT-3	
	14	3-703-571-00 *3-703-244-00		6), CORD 4), CORD
	15	*4-930-301-01 *4-930-302-01 *4-930-303-01 *4-930-304-01 *4-930-305-01 *4-930-306-01	(717M:US)LABEL, MODEL NUM (717M:AEP)LABEL, MODEL NUM (717M:WG)LABEL, MODEL NUM (717M:UK)LABEL, MODEL NUM (717)LABEL, MODEL NUM (717M:Canadian)LABEL, MODE	BER (AE) BER (AE4) BER (UK) BER (F2/F3)
		*4-930-307-01 *4-930-308-01 *4-930-309-01 *4-930-311-01 *4-930-312-01	(818M:US)LABEL, MODEL NUME (818M:IT)LABEL, MODEL NUMI (818M:AEP)LABEL, MODEL NUME (818M:WG)LABEL, MODEL NUME (818M:UK)LABEL, MODEL NUME (818)LABEL, MODEL NUMBER	BER (IT) BER (AE) BER (AE4) BFR (UK)
	16 17 18	*4-930-328-01 *3-309-144-21 *3-327-845-01	PANEL, BACK HEAT SINK BRACKET	
	901 902 903	*1-630-660-11 *1-533-213-31 *1-630-662-11	PC BOARD, LED HOLDER, FUSE PC BOARD, POWER	
	904	*A-4333-306-A	(AEP,UK,E,Saudi Arabia)MOUNTED PCB,	DANE
		*A-4333-312-A *A-4333-317-A	(WG,IT)MOUNTED PCB, (US,Canadin)MOUNTED PCB,	PANEL
	905 906	*1-630-663-11 *1-630-664-11	PC BOARD, VOL PC BOARD, VOL TERMINAL	
	908	*A-4333-305-A *A-4333-311-A *A-4333-316-A *A-4333-326-A *A-4333-363-A *A-4333-389-A	(717,717M:AEP,UK)MOUNTED P (717M:WG)MOUNTED P (717M:US,Canadian)MOUNTED P (818M:WG,IT)MOUNTED P (818,818M:AEP,UK)MOUNTED P (818M:US)MOUNTED P	CB, CONTROL CB, CONTROL CB, CONTROL CB, CONTROL
	909	∆. 1-630-659-11	PC BOARD, POWER AMP	
	910	<u>^</u> .1-551-188-XX <u>^</u> .1-557-577-11	(E)CORD, POWER (US,Canadian)CORD, POWER	
	911 912 913 914	⚠.1-526-565-00 ♠.1-506-401-11 ♠.1-555-750-00 ♠.1-556-037-00	(E)AC PLUG ADAPTOR (Saudi Arabia)ADAPTOR, CONV (AEP.WG,IT,Saudi Arabia)COR (UK)CORD, POWER	ERSION D, POWER
		1-532-285-00	(E,Saudi Arabia,818M:AEP,UK,WG FUSE, TIME-L	AG (1.25A)
		<u>A</u> .1-532-078-00 <u>A</u> .1-532-742-11	(717M:AEP,UK)FUSE, TIM (717M:US,Canadian)FUSE, GLA	E-LAG (1A) SS TUBE (1.6A)
		1-532-743-11 1 1 1 1 1 1 1 1 1	(818M:US)FUSE, GLASS	S TUBE(2A)
		<u>1.532-285-00</u>	(E,Saudi Arabia)FUSE, TIME-I	.AG(1.25A)
	FL401		INDICATOR TUBE, FLUORESCENT	
	PT901 PT901	A. 1-449-561-11 A. 1-449-562-11 A. 1-449-563-11 A. 1-449-564-11	(E,Saudi Arabia)TRANSFORME (717M:UK)TRANSFORME (717M:AEP,UK)TRANSFORME (717M:US,Canadian)TRANSFORME	ER, POWER ER, POWER
İ	PT901	<u>^</u> .1-449-568-11 <u>^</u> .1-449-569-11 <u>^</u> .1-449-570-11	(818M:UK)TRANSFORME (818M:AEP,WG,IT)TRANSFORME (818M:US)TRANSFORME	R. POWER
	PT902	<u>^</u> .1-449-565-11 <u>^</u> .1-449-566-11 <u>^</u> .1-449-567-11	(E,Saudi Arabia)TRANSFORMER, (AEP,UK,WG,IT)TRANSFORMER, (US,Canadian)TRANSFORMER,	POWER

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suc cir res

Ref.No.

902 903

904

906

908

909 🛦

913 A. 914 A.

BP201 BP901

BP904

C002

C003

C005

C006

C007

C008

C010 C011 C051 C052

	3	X-4930-301-1	(818M:US)PA	NEL ASSY, FRONT			*3-701-946-23 *3-701-947-11	(818M:US)LABEL (2A 125V), FUSE (717M:AEP,UK,WG)LABEL (T1A), FUSE	
by ark		X-4930-302-1 X-4930-304-1 X-4930-305-1	(717)P#	NEL ASSY, FRONT NEL ASSY, FRONT	CCY. FDONT	10	4-930-355-01 4-930-355-21 4-930-355-31	(818M:US)CASE (717M,818M:AEP,UK,WG,IT)CASE	
per ne		X-4930-308-1 X-4930-309-1	(818M:AEP,UK,	ian)PANEL AS IG,IT)PANEL AS IG)PANEL AS	SSY, FRONT	11	4-930-355-31 7-682-547-04 7-685-650-79	(E,Saudi Arabia)CASE SCREW +BYTT 3X6 (S) SCREW +BYTP 3X16 TYPE2 IT-3	
ne la	4 5 6	X-4930-303-1 4-930-323-01 7-682-548-04	KNOB ASSY KNOB SCREW +BVTT 3X			13	7-685-646-79 3-703-571-00	SCREW +BVTP 3X8 TYPE2 N-S (E)BUSHING (S) (4516), CORD	
	7 8	4-812-134-11 3-704-366-01	SCREW (CASE) (15	*3-703-244-00 *4-930-301-01	(EXCEPT for E)BUSHING (2104), CORD (717M:US)LABEL, MODEL NUMBER (U)	
	6						*4-930-302-01 *4-930-303-01 *4-930-304-01 *4-930-305-01 *4-930-306-01	(717M:AEP)LABEL, MODEL NUMBER (AE) (717M:WG)LABEL, MODEL NUMBER (AE4) (717M:UK)LABEL, MODEL NUMBER (UK) (717)LABEL, MODEL NUMBER (E2/E3) (717M:Canadian)LABEL, MODEL NUMBER(C)	
909							*4-930-307-01 *4-930-308-01 *4-930-309-01 *4-930-310-01 *4-930-311-01 *4-930-312-01	(818M:US)LABEL, MODEL NUMBER (U) (818M:IT)LABEL, MODEL NUMBER (IT) (818M:AEP)LABEL, MODEL NUMBER (AE) (818M:WG)LABEL, MODEL NUMBER (AE4) (818M:UK)LABEL, MODEL NUMBER (UK) (818)LABEL, MODEL NUMBER (E2/E3)	
						16 17 18	*4-930-328-01 *3-309-144-21 *3-327-845-01	PANEL, BACK HEAT SINK BRACKET	
			n	ot supplied		901 902 903	*1-630-660-11 *1-533-213-31 *1-630-662-11	PC BOARD, LED HOLDER, FUSE PC BOARD, POWER	
			\$			904	*A-4333-306-A	(AEP,UK,E,Saudi Arabia)MOUNTED PCB, PANEL	
	Ø.						*A-4333-312-A *A-4333-317-A	(WG,IT)MOUNTED PCB, PANEL (US,Canadin)MOUNTED PCB, PANEL	
•A	suppli	111	 Saudi Arabi			905 906	*1-630-663-11 *1-630-664-11	PC BOARD, VOL PC BOARD, VOL TERMINAL	
•B	\geq	US, Canadian, E, Saudi Arabia		912		908	*A-4333-305-A *A-4333-311-A *A-4333-316-A *A-4333-326-A *A-4333-363-A *A-4333-389-A	(717,717M:AEP,UK)MOUNTED PCB, CONTROL (717M:WG)MOUNTED PCB, CONTROL (717M:US,Canadian)MOUNTED PCB, CONTROL (818M:WG,IT)MOUNTED PCB, CONTROL (818,818M:AEP,UK)MOUNTED PCB, CONTROL (818M:US)MOUNTED PCB, CONTROL	
	<u></u>	125	13			909	≜. 1−630−659−11	PC BOARD, POWER AMP	
		14	AEP, West Germa Italian	ny, / UK		910	<u>A</u> .1-551-188-XX <u>A</u> .1-557-577-11	(E)CORD, POWER (US,Canadian)CORD, POWER	
E, audi krabia			15	914		912 913	A. 1-526-565-00 A. 1-506-401-11 A. 1-555-750-00 A. 1-556-037-00	(E)AC PLUG ADAPTOR (Saudi Arabia)ADAPTOR, CONVERSION (AEP,WG,IT,Saudi Arabia)CORD, POWER (UK)CORD, POWER	
3901				^		F901	<u>^</u>. 1-532-285-00	(E,Saudi Arabia,818M:AEP,UK,WG,IT) FUSE, TIME-LAG (1.25A)	
		0	™	3			<u>^</u> .1-532-078-00 <u>^</u> .1-532-742-11	(717M:AEP,UK)FUSE, TIME-LAG (1A) (717M:US,Canadian)FUSE, GLASS TUBE	
· N		0	16			F901	<u>^</u> .1-532-743-11	(1.6A) (818M:US)FUSE, GLASS TUBE(2A)	
			16			F902	<u>^</u> .1-532-285-00	(E,Saudi Arabia)FUSE, TIME-LAG(1.25A)	
φ \ \$\11 \ \ \]			FL401	1-519-516-11	INDICATOR TUBE, FLUORESCENT	
18			7			PT901 PT901	A. 1~449-561-11 A. 1-449-562-11 A. 1-449-563-11 A. 1-449-564-11	(E,Saudi Arabia)TRANSFORMER, POWER (717M:UK)TRANSFORMER, POWER (717M:AEP,UK)TRANSFORMER, POWER (717M:US,Canadian)TRANSFORMER, POWER	
	- -	11 1				PT901	⚠.1-449-568-11 ⚠.1-449-569-11 ⚠.1-449-570-11	(818M:UK)TRANSFORMER, POWER (818M:AEP,WG,IT)TRANSFORMER, POWER (818M:US)TRANSFORMER, POWER	
Arabia]	٤	∌11 '				PT902	⚠.1-449-565-11 ⚠.1-449-566-11 ₾.1-449-567-11	(E,Saudi Arabia)TRANSFORMER, POWER (AEP,UK,WG,IT)TRANSFORMER, POWER (US,Canadian)TRANSFORMER, POWER	

Remarks No.

Part No.

Description

*3-701-946-22 (717M:US, Canadian)...LABEL

Part No.

Description

4-930-336-01 FOOT (FELT) 4-928-635-01 SCREW, +BV (2.6X8) TAPPING

SECTION 5 ELECTRICAL PARTS LIST

NOTE:

Remarks

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: MF: μF, PF: μμF.

RESISTORS

 All resistors are in ohms. F: nonflammable

COILS

• MMH: mH, UH: μH

SEMICONDUCTORS In each case, U: μ , for example: UA...: μ A..., UPA...: μ PA..., UPC...: μ PD...

The components identified by mark A or dotted line with mark are critical for safety.

Replace only with part number

Les composants identifiés par une marque 🛕 sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

specified.

Ref.No. Part No. Description Ref.No. Part	t No. Description
901 *1-630-660-11 PC BOARD, LED C053 1-16 902 *1-533-213-31 HOLDER, FUSE	52-282-31 (AEP,UK,WG,IT,E,Saudi Arabia) CERAMIC 100PF 10% 50V
	24-902-00 (AEP,UK,WG,IT,E,Saudi Arabia)
904 *A-4333-306-A (AEP,UK,E,Saudi Arabia) CO55 1-16	ELECT 0.47MF 20% 50V 52-286-31 (AEP,UK,WG,IT,E,Saudi Arabia) CERAMIC 220PF 10% 50V
*A-4333-312-A (WG,IT)MOUNTED PCB, PANEL	24-927-11 (AEP,UK,WG,IT,E,Saudi Arabia)
905 *1-630-663-11 PC BOARD, VOL C057 1-13	ELECT 4.7MF 20% 50V 30-480-00 (AEP,UK,WG,IT,E,Saudi Arabia)
906 *1-630-664-11 PC BOARD, VOL TERMINAL	MYLAR 0.0056MF 5% 50V
MOUNTED PCB, CONTROL	30-473-00 (AEP,UK,WG,IT,E,Saudi Arabia) MYLAR 0.0015MF 5% 50V
*A-4333-311-A (717M:WG)MOUNTED PCB, CONTROL CO59 1-12 *A-4333-316-A (717M:US,Canadian)MOUNTED PCB, CONTROL	24-925-11 (AEP,UK,WG,IT,E,Saudi Arabia) ELECT 2.2MF 20% 50V
*A-4333-326-A (818M:WG,IT)MOUNTED PCB, CONTROL C060 1-16	22-282-31 CERAMIC 100PF 10% 50V
	62-282-31 CERAMIC 100PF 10% 50V 44-925-11 ELECT 2.2MF 20% 50V
C102 1-12	23-875-11 ELECT 10MF 20% 50V
C104 1-12	24-499-11 ELECT 1MF 20% 50V 24-768-11 (US,Canadian)ELECT 4.7MF 20% 50V
910 ♠.1-551-188-XX (E)CORD, POWER ♠.1-557-577-11 (US,Canadian)CORD, POWER C105 1-12	26-233-11 ELECT 22MF 20% 25V
911 A.1-526-565-00 (E)AC PLUG ADAPTOR C201 1-13	36-171-00 FILM 0.33MF 5% 50V 6-165-00 FILM 0.1MF 5% 50V
913 A.1-555-750-00 (AEP,WG,IT,Saudi Arabia)CORD, POWER C202 1-13	0.1MF 5% 50V
C204 1-12	4-563-11 ELECT 2200MF 20% 25V 4-563-11 ELECT 2200MF 20% 25V
BP201 *1-508-830-12 H TYPE BASE POST BP901 *1-535-139-12 (US,Canadian)BASE POST 22MM(10MM PICH) C205 1-13	6-165-00 FILM 0.1MF 5% 50V
BP904 *1-508-830-12 H TYPE BASE POST C206 1-12 C207 1-13	24-478-11 ELECT 100MF 20% 25V 6-165-00 FILM 0.1MF 5% 50V
C001 1-162-282-31 CERAMIC 100PF 10% 50V C002 1-162-282-31 CERAMIC 100PF 10% 50V C208 1-13	16-165-00 FILM 0.1MF 5% 50V
	4-477-11 ELECT 47MF 20% 16V 4-477-11 ELECT 47MF 20% 16V
CERAMIC 100PF 10% 50V	6-165-00 FILM 0.1MF 5% 50V
	4-477-11 ELECT 47MF 20% 16V
CERAMIC 220PF 10% 50V	4-477-11 (AEP,UK,WG,IT,E,Saudi Arabia) ELECT 47MF 20% 16V
	4-477-11 (AEP,UK,WG,IT,E,Saudi Arabia) ELECT 47MF 20% 16V
	4-477-11 ELECT 47MF 20% 16V
C008 1-130-473-00 (AEP,UK,WG,IT,E,Saudi Arabia) C224 1-12	4-477-11 ELECT 47MF 20% 16V 4-477-11 ELECT 47MF 20% 16V
MYLAR 0.0015MF 5% 50V C009 1-124-925-11 (AEP,UK,WG,IT,E,Saudi Arabia) C301 1-12	4-902-00 ELECT 0.47MF 20% 50V
ELECT 2.2MF 20% 50V C302 1-130 C303 1-12	6-163-00 FILM 0.068MF 5% 50V 4-463-00 ELECT 0.1MF 20% 50V
COID 1-162-282-31 CERAMIC 100PF 10% 50V	
C051 1-162-282-31 CERAMIC 100PF 10% 50V C305 1-13	6-156-00 FILM 0.018MF 5% 50V 6-162-00 FILM 0.056MF 5% 50V
	0-480-00 MYLAR 0.0056MF 5% 50V

Ref.No.	Part No.	Description			ı	Ref.No.	Part No.	Description			
C307 C308 C309	1-136-155-00 1-130-472-00 1-130-479-00	FILM MYLAR MYLAR	0.015MF 0.0012MF 0.0047MF	5% 5% 5%	50V 50V 50V	C429 C801 C802	1-124-925-11 1-124-499-11 1-162-288-31	ELECT ELECT CERAMIC	2.2MF 1MF 330PF	20% 20% 10%	50V 50V 50V
C310 C311 C312	1-130-467-00 1-162-215-31 1-162-282-31	MYLAR CERAMIC CERAMIC	470PF 47PF 100PF	5% 5% 10%	50V 50V 50V	C803 C804 C805	1-162-282-31 1-124-122-11 1-124-910-11	CERAMIC ELECT ELECT	100PF 100MF 47MF	10% 20% 20%	50V 35V 50V
C314 C315 C316	1-136-165-00 1-124-499-11 1-136-165-00	FILM ELECT FILM	0.1MF 1MF 0.1MF	5% 20% 5%	50V 50V 50V	C806 C806	1-136-161-00	(US,Canadian	FILM	0.047MF	5% 50V 5% 50V
C317 C320 C321	1-123-875-11 1-162-294-31 1-124-499-11		10MF 0.001MF 1MF	20% 10% 20%	50V 50V 50V	C807 C821 C823	1-136-165-00 1-124-122-11 1-123-875-11	(AEP,UK,WG,I ELECT ELECT	•	0.1MF 20% 20%	5% 50V 50V 50V
C322 C323 C324	1-162-294-31 1-124-902-00 1-161-379-00	CERAMIC ELECT	0.001MF 0.47MF 0.01MF	10% 20% 30%	50V 50V 16V	C824 C825 C826	1-126-176-11 1-126-233-11 1-126-176-11	ELECT ELECT ELECT	22 OMF 22MF 22 OMF	20% 20% 20%	10V 25V 10V
C325 C351 C352	1-123-875-11 1-124-902-00 1-136-163-00		10MF 0.47MF 0.068MF	20% 20% 5%	50V 50V 50V	C827 C828 C829	1-161-379-00 1-161-494-00 1-124-477-11	CERAMIC CERAMIC ELECT	0.01MF 0.022MF 47MF	30% 20%	16V 25V 16V
C353 C354 C355	1-124-463-00 1-136-156-00 1-136-162-00	FILM	0.1MF 0.018MF 0.056MF	20% 5% 5%	50V 50V 50V	C830 C831 C832	1-124-927-11 1-124-463-00 1-123-875-11	ELECT ELECT ELECT	4.7MF 0.1MF 10MF	20% 20% 20%	50V 50V 50V
C356 C357 C358	1-130-480-00 1-136-155-00 1-130-472-00		0.0056MF 0.015MF 0.0012MF	5% 5% 5%	50V 50V 50V	C833A C833B	1-124-927-11 1-123-875-11	ELECT ELECT	4.7MF 1 OMF	20% 20%	50V 50V
C359 C360 C361	1-130-479-00 1-130-467-00 1-162-215-31	MYLAR MYLAR CERAMIC	0.0047MF 470PF 47PF	5% 5% 5%	50V 50V 50V	C834 C835 C851	1-161-379-00 1-123-875-11 1-124-499-11	CERAMIC ELECT ELECT	0.01MF 10MF 1MF	30% 20% 20%	16V 50V 50V
C362 C364 C365	1-162-282-31 1-136-165-00 1-124-499-11	CERAMIC FILM ELECT	100PF 0.1MF 1MF	10% 5% 20%	50V 50V 50V	C852 C853 C854 C855	1-162-288-31 1-162-282-31 1-124-122-11 1-124-910-11	CERAMIC CERAMIC ELECT ELECT	330PF 100PF 100MF 47MF	10% 10% 20% 20%	50V 50V 35V 50V
C366 C367 C401	1-136-165-00 1-123-875-11 1-161-379-00	ELECT	0.1MF 10MF 0.01MF	5% 20% 30%	50V 50V 16V	C856 C856	1-136-161-00 1-136-165-00	(US,Canadian (AEP,UK,WG,I	FILM 0.0	47MF 59	
C402 C403 C404	1-126-233-11 1-126-233-11 1-161-374-11	ELECT ELECT CERAMIC	22MF 22MF 0.0015MF	20% 20% 20%	50V 50V 16V	C857 C901 C902	1-136-165-00 1-136-171-00 1-136-171-00	(AEP,UK,WG,I FILM FILM	T)FILM 0 0.33MF 0.33MF	0.1MF 59 5% 5%	50V 50V 50V
C405 C406 C407	1-161-327-00 1-161-327-00 1-124-257-00	CERAMIC	0.0033MF 0.0033MF 2.2MF	20% 20% 20%	16V 16V 50V	C903 C904 C905 Z	1-126-224-11 1-126-224-11 <u>1</u> -161-742-00	ELECT ELECT CERAMIC	4700MF 4700MF 0.0022MF	20% 20% 20%	42V 42V 400V
C408 C409 C410	1-161-327-00 1-161-327-00 1-124-257-00	CERAMIC	0.0033MF 0.0033MF 2.2MF	20% 20% 20%	16V 16V 50V	C906 C907 C908	1-136-165-00 1-124-912-11 1-124-912-11	ELECT	0.1MF 330MF 330MF	5% 20% 20%	50V 50V 50V
C411 C412 C413	1-161-379-00 1-161-379-00 1-124-257-00	CERAMIC	0.01MF 0.01MF 2.2MF	30% 30% 20%	16V 16V 50V	C909 C910 C911	1-124-479-11 1-161-379-00 1-136-165-00	CERAMIC	330MF 0.01MF 0.1MF	201 301 51	25V 16V 50V
C414 C415 C416	1-124-465-00 1-124-257-00 1-161-327-00	ELECT	0.47MF 2.2MF 0.0033MF	20% 20% 20%	50V 50V 16V	C912 C913 C914 C915	1-124-910-11 1-124-477-11 1-136-165-00 1-136-165-00	ELECT ELECT (WG,IT)FI (WG,IT)FI			50V 16V 50V 50V
C417 C418 C419	1-124-257-00 1-124-257-00 1-161-379-00	ELECT	2.2MF 2.2MF 0.01MF	20% 20% 30%	50V 50V 16V	CN001	1-564-610-41 1-506-979-31	CONNECTOR, B	OARD TO BOA	RD 10P	301
C420 C421 C422	1-162-282-31 1-123-875-11 1-124-477-11	CERAMIC ELECT ELECT	100PF 10MF 47MF	10% 20% 20%	50V 50V 16V	CNJ00	*1-566-858-11 8*1-565-291-11 5*1-566-925-11	SOCKET, CONN SOCKET, CONN SOCKET, CONN	ECTOR 13P (
C425 C426 C427 C428	1-161-379-00 1-124-477-11 1-123-875-11 1-123-875-11	ELECT ELECT	0.01MF 47MF 10MF 10MF	30% 20% 20% 20%	16V 16V 50V 50V		5*1-566-926-11 3*1-566-926-11	SOCKET, CONN			

Note:
The components identified by mark A or dotted line with mark are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numi ro spécifié.

Ref.No. Part No.	Description	Ref.No. Part No.
CNP005*1-566-923-11	PIN, CONNECTOR 4P (FOR CD) PLUG, CONNECTOR 8P PLUG, CONNECTOR 10P	F201 A.1-532-783-21 F202 A.1-532-783-21
CNP008*1-566-924-11	PLUG, CONNECTOR 10P	-
CNP601*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	F203 A.1-532-780-21
CNP602*1-564-521-11	PLUG, CONNECTOR 6P	F901 A.1-532-285-00
CNP801*1-564-338-61 CNP802*1-564-339-00 CNP803*1-564-338-00	PIN, CONNECTOR 4P PIN, CONNECTOR 5P PIN, CONNECTOR 4P	F901 A.1-532-7742-1
	PIN, CONNECTOR 3P	F901 <u></u> .1−532−743−11
CNP901*1-564-104-00 CNP902*1-564-915-11	PIN, CONNECTOR 3P (E,Saudi Arabia)PIN, CONNECTOR 7P	F902 <u></u> .1−532−285−00
CP401 1-233-026-11 CP402 1-233-140-11	COMPOSITION CIRCUIT BLOCK (100KX12) COMPOSITION CIRCUIT BLOCK (100KX8)	FL401 1-519-516-1
D101 8-719-000-26	DIODE US1060M	10001 8-759-600-02
D201 8-719-200-77 D202 8-719-200-77	DIODE 10E2N DIODE 10E2N	10002 8-759-240-52
D203 8-719-200-77	DIODE 10E2N	IC003 8-759-600-07 IC101 8-759-632-0
D204 8-719-200-77 D401 8-719-000-26	DIODE 10E2N DIODE US1060M	IC201 8-759-604-3
D402 8-719-933-68	DIODE HZS11B-3L	IC202 8-759-604-30 IC203 8-759-604-30
D403 8-719-303-13 D404 8-719-303-13	DIODE SEL1210W DIODE SEL1210W	IC301 8-759-602-04
D405 8-719-303-13	DIODE SEL1210W	IC302 8-759-601-43 IC303 8-759-600-02
D406 8-719-303-13 D407 8-719-303-13	DIODE SEL1210W DIODE SEL1210W	IC351 8-759-602-0
D408 8-719-303-59	DIODE SEL1910W	IC401 8-759-820-07 IC402 8-759-600-07
D409 8-719-303-59	DIODE SEL1910W DIODE UZ-4.3BSB	IC403 8-759-600-0
D410 8-719-010-29		IC404 8-759-820-6
D411 8-719-000-26 D412 8-719-000-26	DIODE US1060M DIODE US1060M	IC801 8-749-900-96 IC801 8-749-941-5
D413 8-719-000-26	DIODE US1060M	IC802 8-759-111-6
	DIODE US1060M DIODE US1060M	IC901 8-759-604-8 IC902 8-759-604-9
-	DIODE US1060M	 £1CP201.1-532-846-2
	DIODE US1060M DIODE US1060M	 ∆ICP202.1-532-846-2
D419 8-719-000-26	DIODE US1060M	J001 1-565-258-1 J901 1-562-981-2
D420 8-719-000-26 D421 8-719-000-26	DIODE US1060M DIODE US1060M	J902 1-562-837-1
D422 8-719-303-33	DIODE SEL4214W	L101 1-410-521-1 L102 1-410-521-1
D423 8-719-000-90 D801 8-719-000-26	DIODE UZL-7M3 DIODE US1060M	L401 1-410-521-1
D821 8-719-000-26	DIODE US1060M	L801 *1-420-872-0
D822 8-719-000-26	DIODE US1060M	L851 *1-420-872-0
D851 8-719-000-26	DIODE US1060M	PT901 <u></u> 1-449-561-1 PT901 <u></u> 1-449-562-1
0901 8-719-302-38	(US,Canadian,E,Saudi Arabia,818M:AEP, UK,WG,IT)DIODE RBV-602-01	PT901 <u>A</u> .1-449-563-1 PT901 <u>A</u> .1-449-564-1
D901 8-719-302-36	(717M:AEP,UK,WG)DIODE RBV-402-01	PT901 <u>↑</u> .1-449-568-1
D902 8-719-000-26 D903 8-719-000-26	DIODE US1060M DIODE US1060M	PT901 ∆. 1−449−569−1 PT901 ∆. 1−449−570−1
D904 8-719-200-77	DIODE 10E2N	PT902 <u></u> 1-449-565-1
D905 8-719-200-77 D906 8-719-200-77	DIODE 10E2N DIODE 10E2N	PT902 <u>1</u> . 1–449–566–1 PT902 <u>1</u> . 1–449–567–1
D907 8-719-000-26 D911 8-719-014-23	DIODE US1060M DIODE UZP-3.3BB	Q101 8-729-119-7
		0102 8-729-806-3 0301 8-729-119-7
News	Notes	4 4 110 /

Ref.No. Part No.	Description
F201 1.1-532-783-21	(US,Canadian)FUSE, MICRO (SECONDARY)5A
F202 <u>A</u> .1-532-783-21	(US,Canadian)FUSE, MICRO (SECONDARY)5A
F203 A.1-532-780-21	(818M:US)FUSE, MICRO(SECONDARY)5A
F901 <u></u>	(E,Saudi Arabia,818M:AEP,UK,WG,IT) FUSE, TIME-LAG (1.25A)
F901 A.1-532-078-00 F901 A.1-532-742-11	(717M:AEP,UK,WG)FUSE, TIME-LAG (1A) (717M:US,Canadian) FUSE, GLASS TUBE (1.6A)
F901 <u></u> .1-532-743-11	(818M:US)FUSE, GLASS TUBE (2A)
F902 <u>A</u> .1-532-285-00	(E,Saudi Arabia) FUSE, TIME-LAG (1.25A)
FL401 1-519-516-11	INDICATOR TUBE, FLUORESCENT
IC001 8-759-600-02	(AEP,UK,WG,IT,E,Saudi Arabia)IC M5218L
10002 8-759-240-52	IC TC4052BP
IC003 8-759-600-02 IC101 8-759-632-01 IC201 8-759-604-33	IC M5218L IC M50725-116SP IC M5F7812
IC202 8-759-604-30 IC203 8-759-604-30	IC M5F7808 IC M5F7908
IC301 8-759-602-04	IC M5226P
IC302 8-759-601-43 IC303 8-759-600-02 IC351 8-759-602-04	IC M4066BP IC M5218L IC M5226P
10401 8-759-820-07	IC LC7566
IC402 8-759-600-02 IC403 8-759-600-02	IC M5218L IC M5218L
IC404 8-759-820-62	IC LB1639
IC801 8-749-900-96 IC801 8-749-941-52	(717M)IC STK4142MK2 (717,818,818M)IC STK4152II
IC802 8-759-111-68 IC901 8-759-604-84 IC902 8-759-604-93	IC UPC1237HA IC M5F7806 IC M5F7924
⚠ICP201.1-532-846-21 ⚠ICP202.1-532-846-21	(AEP,UK,WG,IT,E,Saudi Arabia)LINK, IC (AEP,UK,WG,IT,E,Saudi Arabia)LINK, IC
J001 1-565-258-11 J901 1-562-981-21 J902 1-562-837-11	JACK, PIN 4P (CD/PHONO or AUX) JACK (MIX MIC) JACK (HEADPHONES)
L101 1-410-521-11 L102 1-410-521-11 L401 1-410-521-11	INDUCTOR 100UH INDUCTOR 100UH INDUCTOR 100UH
L801 *1-420-872-00 L851 *1-420-872-00	COIL, AIR CORE COIL, AIR CORE
PT901 <u>%</u> 1-449-561-11 PT901 <u>%</u> 1-449-562-11 PT901 <u>%</u> 1-449-563-11 PT901 <u>%</u> 1-449-564-11	(E,Saudi Arabia)TRANSFORMER, POWER (717M:UK)TRANSFORMER, POWER (717M:AEP,UK)TRANSFORMER, POWER (717M:US,Canadian)TRANSFORMER, POWER
PT901 <u>A</u> , 1-449-568-11 PT901 <u>A</u> , 1-449-569-11 PT901 <u>A</u> , 1-449-570-11	(818M:UK)TRANSFORMER, POWER (818M:AEP,WG,IT)TRANSFORMER, POWER (818M:US)TRANSFORMER, POWER
PT902 <u>1.</u> 1-449-565-11 PT902 <u>1.</u> 1-449-566-11 PT902 <u>1.</u> 1-449-567-11	(E,Saudi Arabia)TRANSFORMER, POWER (AEP,UK,WG,IT)TRANSFORMER, POWER (US,Canadian)TRANSFORMER, POWER
Q101 8-729-119-78 Q102 8-729-806-30 Q301 8-729-119-78	TRANSISTOR 2SC2785 TRANSISTOR 2SC4048 TRANSISTOR 2SC2785

Note:
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Note:
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Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
Q302 Q303 Q351	8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785
Q353 Q401 Q402	8-729-119-78 8-729-900-80 8-729-806-34	TRANSISTOR 2SC2785 TRANSISTOR DTC114ES TRANSISTOR 2SC3400
Q403 Q404 Q406	8-729-900-80 8-729-119-78 8-729-800-93	TRANSISTOR DTC114ES TRANSISTOR 2SC2785 TRANSISTOR 2SD1387
Q801 Q802 Q901	8-729-108-05 8-729-173-38 8-729-801-93	TRANSISTOR 2SC1841-PA TRANSISTOR 2SA733 TRANSISTOR 2SD1387
R001 R002 R003 R004	1-249-417-11 1-249-423-11 1-249-429-11 1-249-417-11	CARBON 1K 5% 1/4W CARBON 3.3K 5% 1/4W CARBON 10K 5% 1/4W CARBON 1K 5% 1/4W
R005	1-249-417-11	(AEP,UK,WG,IT,E,Saudi Arabia)CARBON 1K 5% 1/4W
R006	1-249-438-11	(AEP,UK,WG,IT,E,Saudi Arabia)
R007	1-249-417-11	CARBON 56K 5% 1/4W (AEP,UK,WG,IT,E,Saudi Arabia)CARBON 1K 5% 1/4W
R008	1-247-897-11	(AEP,UK,WG,IT,E,Saudi Arabia) CARBON 56OK 5% 1/4W
R009	1-249-437-11	(AEP,UK,WG,IT,E,Saudi Arabia) CARBON 47K 5% 1/4W
R010	1-249-430-11	(AEP,UK,WG,IT,E,Saudi Arabia) CARBON 12K 5% 1/4W
R010	1-249-428-11	(US,Canadian)CARBON 8.2K 5% 1/4W
R011	1-249-429-11 1-249-426-11	CARBON 10K 5% 1/4W CARBON 5.6K 5% 1/4W
R012 R013	1-249-429-11	CARBON 10K 5% 1/4W
R014	1-249-426-11	CARBON 5.6K 5% 1/4W
R015 R016 R017	1-249-429-11 1-249-428-11 1-249-423-11	CARBON 10K 5% 1/4W CARBON 8.2K 5% 1/4W CARBON 3.3K 5% 1/4W
R018	1-249-435-11	CARBON 33K 5% 1/4W
R019 R020	1-249-413-11 1-249-405-11	CARBON 470 5% 1/4W CARBON 100 5% 1/4W
R051	1-249-417-11	CARBON 1K 5% 1/4W
R052 R053	1-249-423-11 1-249-429-11	CARBON 3.3K 5% 1/4W CARBON 10K 5% 1/4W
R054	1-249-417-11	CARBON 1K 5% 1/4W
R055	1-249-417-11	(AEP,UK,WG,IT,E,Saudi Arabia)
R 056	1-249-438-11	(AEP,UK,WG,IT,E,Saudi Arabia)
R 057	1-249-417-11	CARBON 56K 1% 1/4W (AEP,UK,WG,IT,E,Saudi Arabia)CARBON 1K 5% 1/4W
R058	1-247-897-11	(AEP,UK,WG,IT,E,Saudi Arabia)
R059	1-249-437-11	CARBON 560K 5% 1/4W (AEP,UK,WG,IT,E,Saudi Arabia)CARBON 47K 5% 1/4W
R060	1-249-430-11	(AEP,UK,WG,IT,E,Saudi Arabia)
R060	1-249-428-11	CARBON 12K 5% 1/4W (US,Canadian)CARBON 8.2K 5% 1/4W
R061	1-249-429-11	CARBON 10K 5% 1/4W
R062 R063	1-249-426-11 1-249-429-11	CARBON 5.6K 5% 1/4W CARBON 10K 5% 1/4W
R064 R065 R066	1-249-426-11 1-249-429-11 1-249-428-11	CARBON 5.6K 5% 1/4W CARBON 10K 5% 1/4W CARBON 8.2K 5% 1/4W

Ref.No.	Part No.	Description			
R067 R068 R069	1-249-423-11 1-249-435-11 1-249-413-11	CARBON CARBON CARBON	3.3K 5 33K 5 470 5	% 1/4W	
R070 R101 R102	1-249-405-11 1-249-417-11 1-249-423-11	CARBON CARBON CARBON	100 5 1K 5 3.3K 5	% 1/4W	
R103 R104 R105	1-249-417-11 1-249-441-11 1-249-417-11	CARBON CARBON CARBON	1K 5 100K 5 1K 5	% 1/4W	
R106 R107 R108	1-249-429-11 1-249-429-11 1-249-441-11	CARBON CARBON CARBON	10K 5 10K 5 100K 5	% 1/4W	
R109 R110 R111	1-249-429-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON	10K 59 1K 59 1K 59	% 1/4W	
R112 R113 R114	1-249-417-11 1-249-405-11 1-249-405-11	CARBON CARBON CARBON	1K 5 100 5 100 5	% 1/4W	
R115 R116 R117	1-249-405-11 1-249-405-11 1-249-405-11	CARBON CARBON CARBON	100 5 100 5 100 5	% 1/4W	
R118 R119 R120	1-249-405-11 1-249-437-11 1-249-405-11	CARBON CARBON CARBON	100 5 47K 5 100 5	% 1/4W	
R121 R122 R123	1-249-417-11 1-249-405-11 1-249-393-11	CARBON CARBON CARBON	1K 5 100 5 10 5	% 1/ 4 W	
R124 R125 R126	1-249-393-11 1-247-903-00 1-249-421-11	(US,Canadian CARBON CARBON)CARBO 1M 5 2.2K 5	% 1/4W	1/4W
R127 R128 R129	1-249-429-11 1-249-401-11 1-249-429-11	CARBON CARBON CARBON	10K 5° 47 5° 10K 5°	% 1/4W	
R201 🚹	3.1-217-469-00 3.1-217-481-00 3.1-217-489-00	(818M:US) FUSIBLE FUSIBLE	FUSIBLE 1 10 59 47 5	% 1W	F F
R301 R302 R303	1-249-425-11 1-249-413-11 1-249-441-11	CARBON CARBON CARBON	4.7K 5° 470 5° 100K 5°	% 1/4W	
R304 R305 R306	1-249-437-11 1-249-432-11 1-249-431-11	CARBON CARBON CARBON	47K 5 18K 5 15K 5	% 1/4W	
R307 R308 R309	1-249-429-11 1-247-891-00 1-249-421-11	CARBON CARBON CARBON	10K 5° 330K 5° 2.2K 5°	% 1/4W	
R310 R311 R320	1-249-425-11 1-249-429-11 1-249-414-11	CARBON CARBON CARBON	4.7K 5 10K 5 560 5	% 1/4W	
R321 R322 R323	1-249-429-11 1-249-415-11 1-249-441-11	CARBON CARBON CARBON	10K 59 680 59 100K 59	% 1/4W	
R324 R325 R326	1-249-434-11 1-249-422-11 1-249-429-11	CARBON CARBON CARBON	27K 59 2.7K 59 10K 59	% 1/4W	
R351 R352 R353	1-249-425-11 1-249-413-11 1-249-441-11	CARBON CARBON CARBON	4.7K 55 470 5 100K 5	% 1/4W	
No	te:	Note:			

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Ne les remplacer que par une pièce portant le numéros pécifié.

Ref.No.	Part No.	Description			i	Ref.No.	Part No.	Description				
R354 R355 R356	1-249-437-11 1-249-432-11 1-249-431-11	CARBON 479 CARBON 180 CARBON 150	K 5%	1/4W 1/4W 1/4W		R448 R449 R450	1-247-885-00 1-249-385-11 1-249-405-11	CARBON CARBON CARBON	180K 2.2 100	5% 5% 5%	1/4W 1/4W 1/4W	
R357 R358 R359	1-249-429-11 1-247-891-00 1-249-421-11	CARBON 10 CARBON 33		1/4W 1/4W 1/4W		R451 R452 R453	1-249-441-11 1-249-441-11 1-249-419-11	CARBON CARBON CARBON	100K 100K 1.5K	5% 5% 5%	1/4W 1/4W 1/4W	
R360 R401 R402	1-249-425-11 1-249-425-11 1-249-415-11		7K 5% 7K 5% 0 5%	1/4W 1/4W 1/4W		R456 R457 R458	1-249-417-11 1-249-417-11 1-249-421-11	CARBON CARBON CARBON	1K 1K 2.2K	5% 5% 5%	1/4W 1/4W 1/4W	
R403 R404 R405	1-249-416-11 1-249-413-11 1-249-408-11	CARBON 82 CARBON 47 CARBON 18	0 5%	1/4W 1/4W 1/4W		R459 R460 R801	1-249-437-11 1-249-437-11 1-249-417-11	CARBON CARBON CARBON	47K 47K 1K	5% 5% 5%	1/4W 1/4W 1/4W	
R406 R407 R408	1-249-414-11 1-249-429-11 1-249-413-11	CARBON 56 CARBON 10 CARBON 47	K 5%	1/4W 1/4W 1/4W		R802 R803 R804	1-249-438-11 1-249-438-11 1-249-414-11	CARBON CARBON CARBON	56K 56K 560,	5% 5% 5%	1/4W 1/4W 1/4W	
R409 R409	1-249-415-11 1-249-420-11	(US,Canadian) (AEP,UK,WG,IT,E,	Saudi A		1/4W 1/4W	R805 R806 R807	1-249-438-11 1-247-756-11 1-247-756-11	CARBON CARBON CARBON	56K 2.2K 2.2K	5% 5% 5%	1/4W 1/2W 1/2W	
R410 R410	1-249-419-11	(AEP,UK,WG,IT,E,	CARBON	1.5K 5%	1/4W 1/4W	R808 R809 <u></u> R810	1-249-429-11 3-1-247-727-11 1-249-438-11	CARBON CARBON CARBON	10K 10 56K	5% 5% 5%	1/4W 1/2W 1/4W	F
R411 R412 R413	1-249-421-11 1-249-425-11 1-249-430-11	CARBON 2.	2K 5% 7K 5%	1/4W 1/4W 1/4W		R811 R821 <u>↑</u> R822	1-217-151-00 1-212-881-11 1-247-752-11	METAL PLATE FUSIBLE CARBON	0.22 100 1K	10% 5% 5%	2W 1/4W 1/2W	F
R414 R415 R416	1-249-441-11 1-249-441-11 1-249-432-11		OK 5% OOK 5% K 5%	1/4W 1/4W 1/4W		R823 R824 <u>↑</u> R825	1-247-752-11 3-1-212-881-11 1-249-441-11	CARBON FUSIBLE CARBON	1K 100 100K	5% 5% 5%	1/2W 1/4W 1/4W	F
R417 R418 R419	1-249-429-11 1-249-434-11 1-249-425-11	CARBON 10 CARBON 27 CARBON 4.		1/4W 1/4W 1/4W		R826 R827 R828 R829	1-249-429-11 1-249-433-11 1-249-433-11 1-249-433-11	CARBON CARBON CARBON CARBON	10K 22K 22K 22K 22K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R420 R421 R422	1-249-436-11 1-249-441-11 1-249-441-11		K 5% OOK 5% OOK 5%	1/4W 1/4W 1/4W			1-247-741-11 1-247-744-11	(717M) (717,818,818M	CA	RBON	150 5%	
R423 R424 R425	1-249-432-11 1-247-883-00 1-249-441-11		3K 5% 3OK 5% 3OK 5%	1/4W 1/4W 1/4W		R831 R832 R833	1-249-439-11 1-249-430-11 1-249-413-11	CARBON CARBON CARBON	68K 12K 470	5% 5% 5%	1/4W 1/4W 1/4W	
R426 R427 R428	1-249-440-11 1-249-431-11 1-247-881-00	CARBON 82 CARBON 15 CARBON 12		1/4W 1/4W 1/4W		R834 R835 R836	1-249-429-11 1-249-414-11 1-249-441-11	CARBON CARBON CARBON	10K 560 100K	5% 5% 5%	1/4W 1/4W 1/4W	
R429 R430 R431	1-249-441-11 1-249-426-11 1-249-441-11	CARBON 5.	00K 5% .6K 5% 00K 5%	1/4W 1/4W 1/4W		R837 R851 R852	1-247-903-00 1-249-417-11 1-249-438-11	CARBON CARBON CARBON	1M 1K 56K	5% 5% 5%	1/4W 1/4W 1/4W	
R432 R433 R434	1-249-427-11 1-249-441-11 1-249-416-11	CARBON 10	.8K 5% 00K 5% 00 5%	1/4W 1/4W 1/4W		R853 R854 R855	1-249-438-11 1-249-414-11 1-249-438-11	CARBON CARBON CARBON	56K 560 56K	5% 5% 5%	1/4W 1/4W 1/4W	
R435 R436 R437	1-249-425-11 1-249-441-11 1-247-903-00		7K 5% OK 5% I 5%	1/4W 1/4W 1/4W		R856 R857 R858	1-247-756-11 1-247-756-11 1-249-429-11	CARBON CARBON CARBON	2.2K 2.2K 10K	5% 5% 5%	1/2W 1/2W 1/4W	
R438 R439 R440	1-249-408-11 1-249-429-11 1-249-429-11	CARBON 18 CARBON 10 CARBON 10	0K 5% 0K 5%	1/4W 1/4W 1/4W		R860 R861	.1-247-727-11 1-249-437-11 1-217-151-00 .1-212-881-11	CARBON CARBON METAL PLATE FUSIBLE	10 47K 0.22 100	5% 5% 10% 5%	1/2W 1/4W 2W 1/4W	
R441 R442 R443	1-249-429-11 1-249-415-11 1-249-422-11	CARBON 10 CARBON 68 CARBON 2.		1/4W 1/4W 1/4W		R901 R901	1-249-427-11 1-249-429-11	(717M) (717,818,818M)				
R444 R445 R447	1-249-429-11 1-249-429-11 1-249-417-11	CARBON 10 CARBON 10 CARBON 1K	K 5%	1/4W 1/4W 1/4W		R902 R904 <u>∱</u> R905	1-249-425-11 .1-247-741-11 1-249-429-11	CARBON CARBON CARBON	4.7K 150 10K	5% 5% 5%	1/4W 1/2W 1/4W	F

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Ref.No. Part No.	Description
R906 1-249-429-11 R907 1-249-432-11	CARBON 10K 5% 1/4W CARBON 18K 5% 1/4W
R908 ⚠.1-247-750-11 R908 ⚠.1-247-751-11	(717M)CARBON 680 5% 1/2W F (717,818,818M)CARBON 820 5% 1/2W F
R909 <u>A</u> .1-247-750-11 R909 <u>A</u> .1-247-751-11	(717M)CARBON 680 5% 1/2W F (717,818,818M)CARBON 820 5% 1/2W F
R910 A.1-247-727-11 R911 A.1-247-727-11 R912 A.1-202-725-00	(WG,IT)CARBON 10 5% 1/2W F (WG,IT)CARBON 10 5% 1/2W F (US,Canadian)SOLID 3.3M 10% 1/2W
RV301 1-238-457-11 RV302 1-238-457-11 RV303 1-238-457-11	RES, VAR, CARBON 250K/250K (100Hz) RES, VAR, CARBON 250K/250K (400Hz) RES, VAR, CARBON 250K/250K (1kHz)
RV304 1-238-457-11 RV305 1-238-457-11 RV306 1-238-491-11	RES, VAR, CARBON 250K/250K (4kHz) RES, VAR, CARBON 250K/250K (12kHz) RES, VAR, CARBON 500K/500K (DBFB LEVEL) (SAT LEVEL)
RV307 1-238-459-11 RV308 1-238-458-11 RV309 1-237-884-11	RES, VAR, CARBON 100K (BALANCE)
RY801 1-515-503-00 RY901 1-515-516-00	RELAY RELAY
\$401 1-554-303-21 \$402 1-554-303-21 \$403 1-554-303-21	SWITCH, KEY BOARD (POWER) SWITCH, KEY BOARD (DBFB/SAT) SWITCH, KEY BOARD (PHONO/AUX)
\$404 1-554-303-21 \$405 1-554-303-21 \$406 1-554-303-21	SWITCH, KEY BOARD (TUNER) SWITCH, KEY BOARD (CD) SWITCH, KEY BOARD (TAPE)
\$407 1-554-303-21 \$901 ∆. 1-571-437-11	SWITCH, KEY BOARD (EQUALIZATION) (E,Saudi Arabia)SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)
TB901 1-536-705-00	TERMINAL BOARD (SP)(SPEAKER)
X101 1-577-358-21	VIBRATOR, CERAMIC 4MHz

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